GASLOCK

GASLEVEL® mit externem Display

Installation Guide

Installation Guide

Contents

GB

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Summary

Contents of shipment

① Level indicator with 3 meter line
② 12 Volt LED display
③ Cover frame
④ User manual & accessories

- Make sure the shipment is complete and undamaged.
- Should the shipment be incomplete or show damage from transport, do not operate the unit. Instead, please contact our customer service department (see page 17).

System requirements

- Standard propane or butane gas cylinders
- The gas cylinders are located in standard containers such as e.g. tow bar lockers or gas cylinder compartments of caravans
- Cable routing is as usual through the storage boxes of vehicles

General instructions & information

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Please note

The information in this document may change without notice and does not imply obligation of any type on the part of Gaslock GmbH.
Please read the user manual before use in any case.
The external reserve indicator for gas cylinders may be used only under the following parameters: -20° C < TA < +60° C

Accessories

If you need an additional frame, please order from us using item no. GL-4002-01 grey / GL-4002-02 black / GL-4002-03 white. If an extension of the connecting cable between the level indicator and LED display is required, please use only our special 5-meter extension cable (Due to the cable length can possibly be susceptible to radio frequency fields (power lines, etc.)), item no. GL-4003.

Incomplete or damaged shipment

Should your goods be damaged, they must be replaced immediately upon discovery. In case of an incomplete or damaged shipment, please consult our customer service department:

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Safety instructions

- Use only 12- or 24-volt batteries.
- When connecting the 12-volt line, take care to supply the correct voltage and make sure that the positive terminal of the battery and the ground cable are attached correctly.
- When connecting the 12-volt line, ensure that all lines are disconnected from the mains and that there is no current flow.
- Do not open the housing of the level indicator or that of the LED display if these are still connected to the mains.
- The device may be repaired only by an authorized repair facility. Our customer service department will provide instructions on how to proceed in case of needed repair.
- Use only components and accessories specified by the manufacturer.
- Protect the device against moisture. Inspect the unit regularly for damage.
- Please ensure that any necessary repair is carried out exclusively by the manufacturer.
- Please take note to have any needed repair carried out exclusively by the manufacturer.

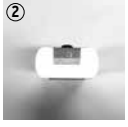
Safety instructions

- For installations related to areas subject to explosive hazards, all valid national regulations and installation provisions shall be observed. **Caution:** In case of repair or modification of explosion-protected equipment, the national provisions shall be observed.
- Only original replacement parts may be used for maintenance and repairs.
- Do not attach the display within the gas cylinder chamber or in explosion-prone areas.

Connections & control elements

Level indicator

Topview



Front with inspection glass

Back with connection

12-volt LED display

Operating states

Setting mode
The proper connection of the LED display is through the 12-volt line to the mains. The level indicator is connected to the LED display via the 3-meter line.

The setting mode serves to check the function as well as to allow an immediate monitoring of the fill level. In this mode both the 12-volt LED display as well as the level indicator operate in parallel.

You can enter the setting mode as follows:
- Press the black button of the level indicator
- Both the LED of the indicator as well as of the LED display will light up
- Place the indicator against the cylinder
- If the cylinder is filled to this level, all LEDs will light up in green; if there is no measurable fill level, they will light up in red.
- Now place the indicator against the cylinder downstairs in short increments to find the fill level. **Please do not pull it down along the cylinder!**

Operating states

Operating mode
The operating mode is an energy-saving mode. Due to a reduced measurement sequence and the fact that now only the 12-volt LED display lights up, less energy is used and your battery power is conserved.

You can enter the operating mode as follows:
Press the black button of the level indicator as soon as you have finished with the setting mode, or wait approx. 20 seconds until the indicator switches to the operating mode automatically.

Installation

To connect the level indicator with the external display correctly, only the following equipment is needed:

- Power drill / driver
- Drill bit Ø 7 and Ø 12 mm
- Accessory kit (included)

Installation

Begin the installation of the level indicator with external display by first assembling the LED display.

When you have chosen a suitable place for your display, use the drilling template, which you will find on the back of the board on the inside of the packaging, to sketch the hole through which the 3-meter line and the 12-volt line will be run. Make sure that these holes are set close enough to the display that the cover frame will cover them.

When you have drilled the conduits, you can fasten the display with the 4 bolts that are included, and subsequently run the 12-volt line through and connect it.

Once you have installed the display, you can start laying the 3-meter line with the attached indicator in your gas cylinder compartment. From there you can route the line into the inside of your caravan in the direction of your LED dislay. If you have no conduit at this point to the inside of your caravan, you must drill a hole here also, so that the 5-meter line can be installed properly.

Now you only need to connect the 3-meter line to your LED display.

Start-Up

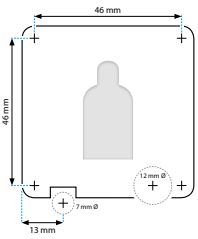
When you have installed the display as described (see page 22) and laid the connecting cable, it is time to determine the limit of the fill level, which is associated with a warning.
To do this, you must attach the level indicator to the gas cylinder.

Because it has inner magnets, the level indicator immediately adheres to the **steel cylinder**.
Please ensure that the level indicator is attached perpendicular to the cylinder and that the ultrasonic transmitter (dimly visible under the black rubber coating as a circle) lies flat against the cylinder.

The unit **is not** suitable for refillable tank gas cylinders and gas tanks. Welds or dirty oder rusted gas cylinders may cause inaccurate measurements.

Please do not connect consumers during start-up.

Drill jig



Frequently asked questions

If you did not get the results you expected, we hope to address your questions and problems with the following:

Why do the LEDs of the level indicator not light up?
+ Check to make sure the 12-volt LED display is supplied with power.
+ Check to make sure that the 3-meter line is correctly connected to the LED display.

Why can the fill level not be determined correctly with the level indicator ?
+ Remember that a gas cylinder may only be filled to a capacity of 80 % for safety reasons.
+ Do not place the level indicator onto rusty areas, the weld, or uneven surfaces.
+ Do not pull the level indicator downward along the cylinder; rather lift each time before placing it in a new position.
+ Clean the cylinders with the aid of silicone spray.

Frequently asked questions

Why do the red and green LEDs in the level indicator light up alternately when I am trying to determine the fill level?
+ Make sure that the level indicator lies flat against the cylinder.

Why does the green LED not light up on the LED display?
+ Check to see if the 12-volt LED display is being supplied with power.

Technical data

External reserve indicator for gas cylinders	
Item number	GL-4001
Dimensions of indicator (LxWxH)	75,4 mm x 30,9 mm x 17,8 mm
Dimensions of display (LxWxH)	54,0 mm x 54,0 mm x 9,0 mm
Weight indicator	30 g
Weight display	10 g
Approval mark:	EMV 2004/108/EG Sensor: II 2G Ex ib IIB T4 Display: II (2) G [Ex ib] IIB

Cleaning, care and environmental protection

Cleaning the unit

Please make sure to keep the rubber surface on the back of the level indicator and the contact surface of the bottle as clean as possible at all times.
Avoid harsh detergents if possible as these can damage the unit.
Avoid abrasive cleaning pads if possible as these may scratch or damage the unit.

Disposal of the unit

Do not throw the device into the regular household waste under any circumstances. This product is subject to European Directive 2002/96/EC WEEE (Waste Electrical and Electronic Equipment). Dispose of the unit through an authorized disposal center or at your community waste facility. Observe the currently applicable regulations. If in doubt, contact your waste disposal facility.
In case of questions, suggestions or complaints, please contact our customer-service department:

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